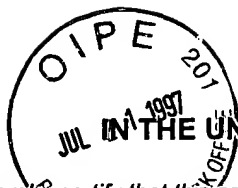


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PATENT

8/28/97  
P.H.  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to Commissioner of Patents and Trademarks, Washington, D.C. 20231 on July 16, 1997.

*Mary Helen Lopez*  
Signature

Applicant : Dah-Ben Liang, et al.  
Application No. : 08/815,745  
Filed : March 12, 1997  
Title : ROCK BIT WITH HARDFACING MATERIAL INCORPORATING  
SPHERICAL CAST CARBIDE PARTICLES  
  
Grp./Div. : Unknown  
Examiner : Unknown  
  
Docket : 30473/RDS/S61

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INFORMATION DISCLOSURE STATEMENT AND  
CERTIFICATION UNDER § 1.97(e)(1)

Post Office Box 7068  
Pasadena, CA 91109-7068  
July 16, 1997

Assistant Commissioner for Patents  
Washington, D.C. 20231

Commissioner:

In compliance with the duty of disclosure under 37 CFR §§ 1.56, 1.97 and 1.98, and in accordance with the provisions in the Manual of Patent Examining Procedure §§ 609 and 707.05(b), enclosed is FORM PTO-1449 with a listing of a reference that is known to applicant. A copy of the listed reference is enclosed.


It is respectfully requested that this reference be considered in the examination of this application and identified on the list of references cited on the patent issuing on this application. Applicant also requests that an initialed copy of said FORM PTO-1449 be entered in the application file and returned to applicant with the next communication from the Office in accordance with MPEP § 609.

**Application No. 08/815,745**

Applicant's undersigned attorney hereby certifies, in accordance with 37 CFR § 1.97(e)(1), that the above information was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this statement.

Respectfully submitted,

CHRISTIE, PARKER & HALE, LLP

By   
Richard D. Seibel  
Reg. No. 22,134  
626/795-9900; 213/681-1800

RDS/mhl  
Enclosures: PTO 1449, w/reference.

MHL PAS92265.1--7/16/97 3:32 pm